



CENTER OF OUR STRENGTH

Project Manager Soldier Warrior
Product Manager Air Warrior



Air Soldier Breakout Session

2011 Advance Planning Brief for Industry

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Air Soldier Full Capability



25-30% Reduction in Bulk and Weight

Modular Integrated Helmet and Display System (MIHDS):

- 15-50% Improvement in crash attenuation
- Increased Field of View (FOV)
- 3D Audio with integrated head tracker
- Common color helmet mounted display with enhanced flight and DVE symbology
- Integrated CB eye/respiratory protection

Suite of Integrated Personal Electronics:

- Modular electronics architecture
- Single/common user interface
- Aircraft-mounted mission display module
- Universal power source
- Wearable cooling for non rated crew
- Enhanced features including additional messaging, terrain and obstacle awareness/warnings, and weather



**Wide (>90°) Field Of View
Night Vision Device**

Enhanced Laser Eye Protection

Fully Integrated Layered Clothing Ensemble (LCE):

- Duty Uniform with active heating and cooling
- Single layer lightweight CB protection with integrated liquid waste management
- Multi-purpose CB and immersion protective garment
- Integrated contact injury protection
- Elimination of body-worn raft

Integrated Protective Equipment:

- Lightweight soft body armor insert
- Integrated gear carriage and body armor system
- Optimized/standardized survival items
- Fully integrated flotation system
- Lightweight composite emergency breathing device and oxygen system

IOC: FY 2019



Sub-Increment Progression

Sub-Increments 1a and 1b are enablers for final system solution



Sub-Increment 1a:

- Bulk and weight reduction of 72-hour survival items and soft body armor
- Lightweight common helmet platform for mounting future SA devices/enhancements
- Introduce wearable cooling to enhance mobility for non-rated crew members; lighten materials in the current cooling vest

Sub-Increment 1b:

- Minimize layers of protective clothing, to include thermal (add active heating), immersion protection and Chem/Bio protection
- Integrated suite of personal electronics allows removal of all electronics equipment from torso region
- SA Enhancements-3D Audio and integrated head tracker built upon common helmet platform

Sub-Increment 1c:

- Integration of the gear carriage system with body armor system, gear carriage, flotation, extraction/retrieval
- Helmet Mounted Display, integrated Chem/Bio eye and respiratory protection, enhanced laser eye protection, and Wide Field of View night vision built upon common helmet platform

Iterative process to a fully integrated solution



Development Opportunities in FY 12



Project

RFP

DT/OT

Immersion Protection

1QFY12

4QFY14

Integrated Protective Eqmt

3QFY12

1QFY16



Questions



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